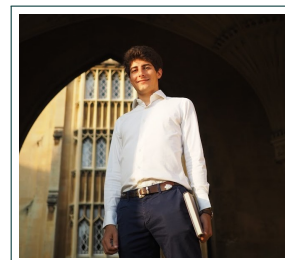


Edoardo M. Ponti

Curriculum Vitae

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Education

- October 2020 **Postdoctoral Fellow**, School of Computer Science, Mila - Quebec AI Institute /
- September 2021 McGill University (Montreal, Quebec, Canada).
Siva Reddy's Lab.
- October 2016 **Ph.D. in Computational Linguistics**, Language Technology Lab, University of
- September 2020 Cambridge (United Kingdom).
Supervised by Anna Korhonen. Affiliated to St John's College.
- January - **Visiting Student**, at Vrije Universiteit, Amsterdam (Netherlands).
March 2016 Part of the ERC-funded NewsReader project for story extraction and generation.
- October 2014 **Master in Theoretical and Applied Linguistics**, University of Pavia (Italy).
- July 2016 Thesis title: *Identifying Causal Relations between Events with Artificial Neural Networks*.
110/110 with honours and publication recommended (extremely rare).
- October 2011 **Diploma in Human Sciences**, Neuroscience and Theoretical Syntax, Institute of
- July 2016 Advanced Study (IUSS), Pavia (Italy).
Highest grade and publication recommended.
- 2014 and **Erasmus exchanges**, at the University of Helsinki, Finland, and the University of
2016 Cambridge, United Kingdom.
- October 2011 **Bachelor's Degree in Modern Literature**, University of Pavia (Italy).
- July 2014 Thesis title: *Partitive subject in Finnish*. 110/110 with honours. Affiliated to Ghislieri
College.

Publications

arXiv Preprints

1. **Ponti, Edoardo Maria***, Goran Glavaš*, Olga Majewska, Qianchu Liu, Ivan Vulić, and Anna Korhonen. 2020. *XCOPA: A Multilingual Dataset for Causal Commonsense Reasoning*. arXiv:2005.2005.
2. **Ponti, Edoardo Maria**, Ivan Vulić, Ryan Cotterell, Marinela Parovic, Roi Reichart, and Anna Korhonen. 2020. *Parameter Space Factorization for Zero-Shot Learning across Tasks and Languages*. arXiv:2001.11453
3. Vulić, Ivan*, Simon Baker*, **Edoardo Maria Ponti***, Ulla Petti, Ira Leviant, Kelly Wing, Olga Majewska et al. 2020 *Multi-SimLex: A Large-Scale Evaluation of Multilingual and Cross-Lingual Lexical Semantic Similarity*. arXiv:2003.04866
4. Lauscher, Anne, Ivan Vulić, **Edoardo Maria Ponti**, Anna Korhonen, and Goran Glavaš. 2019. *Informing Unsupervised Pretraining with External Linguistic Knowledge*. arXiv:1909.02339

Peer-Reviewed Conference Papers

1. **Ponti, Edoardo Maria**, Ivan Vulić, Ryan Cotterell, Roi Reichart, Anna Korhonen. 2019. *Towards Zero-shot Language Modeling*. In Proceedings of EMNLP 2019.
2. **Ponti, Edoardo Maria**, Ivan Vulić, Goran Glavaš, Roi Reichart, Anna Korhonen. 2019. *Cross-lingual Semantic Specialization via Lexical Relation Induction*. In Proceedings of EMNLP 2019.
3. Kamath, Aishwarya, Jonas Pfeiffer, **Edoardo Maria Ponti**, Goran Glavaš, and Ivan Vulić. 2019. *Specializing Distributional Vectors of All Words for Lexical Entailment*. In Proceedings of RepL4NLP-2019.
4. **Ponti, Edoardo Maria**, Ivan Vulić, Goran Glavaš, Nikola Mrkšić and Anna Korhonen. *Adversarial Propagation and Zero-Shot Cross-Lingual Transfer of Word Vector Specialization*. In: Proceedings of EMNLP 2018.
5. Gerz, Daniela, Ivan Vulić, **Edoardo Maria Ponti**, Roi Reichart and Anna Korhonen. *On the Relation between Linguistic Typology and (Limitations of) Multilingual Language Modeling*. In: Proceedings of EMNLP 2018.
6. **Ponti, Edoardo Maria**, Roi Reichart, Anna Korhonen and Ivan Vulić. 2018. *Isomorphic Transfer of Syntactic Structures in Cross-lingual NLP*. In: Proceedings of ACL 2018.
7. **Ponti, Edoardo Maria**, Ivan Vulić and Anna Korhonen. 2017. *Decoding Sentiment from Distributed Representations of Sentences*. In: Proceedings of *SEM 2017. 30 July - 4 August 2017, Vancouver (British Columbia, Canada).
8. **Ponti, Edoardo Maria** and Anna Korhonen. 2017. *Event-Related Features in Feedforward Neural Networks Contribute to Identifying Implicit Causal Relations in Discourse*. In: Proceedings of the Workshop on Linking Models of Lexical, Sentential and Discourse-level Semantics. 3-7 April 2017, Valencia (Spain).
9. **Ponti, Edoardo Maria** and Marco Passarotti. 2016. *Diversity Makes Composition. A Slower-paced and Reliable Parser for Latin*. In Proceedings of the Conference on Language Resources and Evaluation (LREC'16). 23-28 May 2016, Portorož (Slovenia).
10. **Ponti, Edoardo Maria**. 2016. *Divergence from Syntax to Linear Order in Ancient Greek Lexical Networks*. In Proceedings of The 29th International Florida Artificial Intelligence Research Society Conference (FLAIRS 29). 16-18 May 2016, Key Largo (Florida, USA).

Journal Articles

1. **Ponti, Edoardo Maria**, Helen O'Horan, Yevgeni Berzak, Ivan Vulić, Roi Reichart, Thierry Poibeau, Ekaterina Shutova, and Anna Korhonen. 2019. *Modeling language variation and universals: A survey on typological linguistics for natural language processing*. Computational Linguistics, 1-43.
2. Gerz, Daniela, **Edoardo Maria Ponti**, Ivan Vulić, Jason Naradowsky, Roi Reichart, and Anna Korhonen. 2018. *Language Modeling for Morphologically Rich Languages: Character-Aware Modeling for Word-Level Prediction*. Transactions of the Association for Computational Linguistics (TACL) 6:451-465.
3. **Ponti, Edoardo Maria** and Silvia Luraghi. 2018. *Non-configurationality in diachrony: Correlations in local and global networks of Ancient Greek and Latin*. Diachronica 35(3).
4. **Ponti, Edoardo Maria**, Elisabetta Ježek and Bernardo Magnini. 2017. *Distributed Representations of Lexical Sets and Prototypes in Causal Alternation Verbs*. Italian Journal of Computational Linguistics, 3.1.

Book Editor

1. **Ponti, Edoardo Maria** and Marco Budassi (eds.). 2016. *Compter parler soigner. Between Linguistics and Artificial Intelligence*. Pavia University Press, Pavia.

Job Experience

- Jul - Sep 2019 **Internship in AI / ML at Apple**, Cupertino (California, U.S.).
International features of Siri.
- Oct - Dec 2015 **Internship at the Bruno Kessler Foundation (FBK)**, Trento (Italy).
Topology of word embeddings of lexical sets.
- Feb - May 2015 **Internship at CIRCSE**, University of the Sacred Heart, Milano (Italy).
Ensemble methods for dependency parsing of Latin (*Index Thomisticus*).

Teaching Experience

Supervisor

- Oct 2017 - **Computational Linguistics**, University of Cambridge (U.K.).
May 2019 Department of Theoretical and Applied Linguistics. For two years: A.Y. 17/18 and 18/19

Demonstrator

- Oct 2017 - **Machine Learning and Real-world Data**, University of Cambridge (U.K.).
May 2018 Computer Lab, Faculty of Computer Science and Technology.

Thesis Advisor

Master's thesis, Jia Wan, Huilei Wang. **Bachelor's thesis**: Bonamy Meath-Baker.
University of Cambridge

Summer Schools

- Jul 2017 **Generative Lexicon: Integrating Theoretical and Distributional Methods**,
Preparation of ESSLLI 2017 course material, Toulouse, France.

Tutorials

Nov 2019 **Semantic Specialization of Distributional Word Vectors**, Tutorial at EMNLP-IJCNLP 2019, Hong Kong, China.

Conference Organization

Aug 2019 - **TyP-NLP - Typology for Polyglot Natural Language Processing**, Workshop
Nov 2020 at ACL 2019 (Firenze, Italy) and EMNLP 2020 (Punta Cana, Dominican Republic).
Feb 2019 **St John's College Graduate Symposium**, Cambridge (U.K.).

Service

Publicity/Sponsorship Chair, CoNLL 2018.

Program Co-Chair Assistant, ACL 2019.

Area Chair, *EACL 2021*.

Reviewer, *ACL 2018, EMNLP 2018, NAACL 2019, *SEM 2019, ACL 2019, EMNLP 2019, AAAI 2019, ACL 2020 (Outstanding Reviewer), EMNLP 2020, Artificial Intelligence, Natural Language Engineering, Language Resources and Evaluation, Journal of Historical Linguistics*.

Co-founder and Committee Member, *ACL Special Interest Group on Typology (SIGTYP)*.

Funds and Awards

Mar 2020 **ERC Proof-of-Concept Grant**.
Project 'Enabling Multilingual Conversational AI', co-written with Anna Korhonen (PI), and Ivan Vulić
€ 150,000.

Aug 2019 **Best Paper Award at Repl4NLP 2019**.
For the paper "Specializing Distributional Vectors of All Words for Lexical Entailment", co-written with Aishwarya Kamath, Jonas Pfeiffer, Goran Glavaš and Ivan Vulić

Mar 2019 **Google Faculty Research Award**.
Project "Automatic Induction and Adaptation of Syntactic Structures for Improved Cross-Lingual NLP", co-written with Anna Korhonen (PI), Roi Reichart, and Ivan Vulić
\$60,841 USD

Oct 2016 - **ERC studentship**, University of Cambridge (United Kingdom).

June 2019 Project LEXICAL: Lexical Acquisition across Languages (code GZ08825).
£21K/year for 3 years.

2016 **Self-placed Fulbright Scholarship**, U.S.A.
Offer of a \$38K grant and \$1.1K travel allowance (declined).

Dec 2016 **Young researcher best paper award**, Naples (Italy).
3rd Italian Conference of Computational Linguistics.

Sep 2011 - **Award from the Institute for Advanced Study**, Pavia (Italy).

Jul 2016 Around €2.5K awarded annually (for 5 years) to students who fulfil merit criteria.

2014 **Scholarship from Collegio Ghislieri**, Pavia (Italy).
One-year free board and lodging for the best student in contest (score 78/80).

Technical Skills

- Programming languages: Python, C++, R
- Deep learning libraries: PyTorch, TensorFlow, Theano

Linguistic Skills

Italian	Native speaker	
English	Fluent	<i>IELTS 8</i>
Finnish	Intermediate	
German	Beginner	<i>Start Deutsch 2 - Goethe-Institut</i>